



# *Adopted* **International Standards for Phytosanitary Measures (ISPM)**

Texts of adopted ISPMs are available at: <https://www.ippc.int/core-activities/standards-setting/ispms>

Language versions of this list are available at: <https://www.ippc.int/en/publications/626/>

## **Legend:**

\* Standard under revision

\*\* New supplement, annex or appendix under development

*Updated 2025-10-30*

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| ISPM 1   | <i>Phytosanitary principles for the protection of plants and the application of phytosanitary measures in international trade</i> (adopted in 1993, revised in 2006)                                                                                                                                                                                                                                                                                                                                                                                               |
| ISPM 2*  | <i>Framework for pest risk analysis</i> (adopted in 1995, revised in 2007)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| ISPM 3   | <i>Guidelines for the export, shipment, import and release of biological control agents and other beneficial organisms</i> (adopted in 1995, revised in 2005)                                                                                                                                                                                                                                                                                                                                                                                                      |
| ISPM 4   | <i>Requirements for the establishment of pest free areas</i> (adopted in 1995, revised in 2024)                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| ISPM 5   | <i>Glossary of phytosanitary terms</i> (updated as needed) <ul style="list-style-type: none"><li>- Supplement 1: Guidelines on the interpretation and application of the concept of “official control” and “not widely distributed” (2012)</li><li>- Supplement 2: Guidelines on the understanding of “potential economic importance” and related terms including reference to environmental considerations (2003)</li><li>- Appendix 1: Terminology of the Convention on Biological Diversity in relation to the Glossary of phytosanitary terms (2009)</li></ul> |
| ISPM 6   | <i>Surveillance</i> (adopted in 1997, revised in 2018)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| ISPM 7   | <i>Phytosanitary certification system</i> (adopted in 1997, revised in 2011)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| ISPM 8   | <i>Determination of pest status in an area</i> (adopted in 1998, revised in 2021)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| ISPM 9   | <i>Guidelines for pest eradication programmes</i> (adopted in 1998)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| ISPM 10  | <i>Requirements for the establishment of pest free places of production and pest free production sites</i> (adopted in 1999)                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| ISPM 11* | <i>Pest risk analysis for quarantine pests</i> (adopted in 2001, revised in 2004 and 2013)                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| ISPM 12* | <i>Phytosanitary certificates</i> (adopted in 2001, revised in 2011 and 2022) <ul style="list-style-type: none"><li>- Appendix 1: Electronic phytosanitary certificates, information on standard XML schemas and exchange mechanisms (2014)</li></ul>                                                                                                                                                                                                                                                                                                              |

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| ISPM 13     | <i>Guidelines for the notification of non-compliance and emergency action</i> (adopted in 2001)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| ISPM 14     | <i>The use of integrated measures in a systems approach for pest risk management</i> (adopted in 2002)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| ISPM 15     | <i>Regulation of wood packaging material in international trade</i> (adopted in 2002, revised in 2009, Annex 1 and 2 revised in 2013 and in 2018)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| ISPM 16     | <i>Regulated non-quarantine pests: concept and application</i> (adopted in 2002)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| ISPM 17     | <i>Pest reporting</i> (adopted in 2002)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| ISPM 18     | <i>Requirements for the use of irradiation as a phytosanitary measure</i> (adopted in 2003, revised in 2023)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| ISPM 19     | <i>Guidelines on lists of regulated pests</i> (adopted in 2003)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| ISPM 20     | <i>Guidelines for a phytosanitary import regulatory system</i> (adopted in 2004, revised in 2017 and 2023) <ul style="list-style-type: none"> <li>- Annex 1: Arrangements for verification of compliance of consignments by the importing country in the exporting country (2017)</li> <li>- Annex 2: Use of specific import authorizations (2023)</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| ISPM 21     | <i>Pest risk analysis for regulated non-quarantine pests</i> (adopted in 2004)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| ISPM 22     | <i>Requirements for the establishment of areas of low pest prevalence</i> (adopted in 2005)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| ISPM 23*,** | <i>Guidelines for inspection</i> (adopted in 2005)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| ISPM 24     | <i>Guidelines for the determination and recognition of equivalence of phytosanitary measures</i> (adopted in 2005)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| ISPM 25     | <i>Consignments in transit</i> (adopted in 2006)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| ISPM 26*    | <i>Establishment of pest free areas for fruit flies (Tephritidae)</i> (adopted in 2006, revised in 2014 and 2015) <ul style="list-style-type: none"> <li>- Appendix 1: Fruit fly trapping (2011)</li> <li>- Annex 2: Control measures for an outbreak within a fruit fly-pest free area (2014)</li> <li>- Annex 3: Phytosanitary procedures for fruit fly management (2015)</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| ISPM 27     | <i>Diagnostic protocols for regulated pests</i> (adopted in 2006) <ul style="list-style-type: none"> <li>- DP 1: Diagnostic protocol for <i>Thrips palmi</i> Karny (2010)</li> <li>- DP 2: Diagnostic protocol for <i>Plum pox virus</i> (2012, revised in 2018)</li> <li>- *DP 3: Diagnostic protocol for <i>Trogoderma granarium</i> Everts (2012)</li> <li>- DP 4: Diagnostic protocol for <i>Tilletia indica</i> Mitra (2014)</li> <li>- *DP 5: Diagnostic protocol for <i>Phyllosticta citricarpa</i> (McAlpine) Aa on fruit (2014)</li> <li>- DP 6: Diagnostic protocol for <i>Xanthomonas citri</i> subsp. <i>citri</i> (2014)</li> <li>- DP 7: Diagnostic protocol for <i>Potato spindle tuber viroid</i> (2015)</li> <li>- DP 8: Diagnostic protocol for <i>Ditylenchus dipsaci</i> and <i>Ditylenchus destructor</i> (2015)</li> <li>- DP 9: Diagnostic protocol for Genus <i>Anastrepha</i> (2015, revised in 2024)</li> <li>- DP 10: Diagnostic protocol for <i>Bursaphelenchus xylophilus</i> (2016)</li> <li>- DP 11: Diagnostic protocol for <i>Xiphinema americanum sensu lato</i> (2016)</li> <li>- DP 12: Diagnostic protocol for Phytoplasmas (2016)</li> <li>- DP 13: Diagnostic protocol for <i>Erwinia amylovora</i> (2016)</li> <li>- DP 14: Diagnostic protocol for <i>Xanthomonas fragariae</i> (2016)</li> <li>- DP 15: Diagnostic protocol for <i>Citrus tristeza virus</i> (2016)</li> <li>- DP 16: Diagnostic protocol for Genus <i>Liriomyza</i> (2016)</li> <li>- DP 17: Diagnostic protocol for <i>Aphelenchoides besseyi</i>, <i>A. fragariae</i> and <i>A. ritzemabosi</i> (2016)</li> <li>- DP 18: Diagnostic protocol for <i>Anguina</i> spp. (2017)</li> </ul> |

- DP 19: Diagnostic protocol for *Sorghum halepense* (2017)
- DP 20: Diagnostic protocol for *Dendroctonus ponderosae* (2017)
- DP 21: Diagnostic protocol for 'Candidatus Liberibacter solanacearum' (2017)
- DP 22: Diagnostic protocol for *Fusarium circinatum* (2017)
- DP 23: Diagnostic protocol for *Phytophthora ramorum* (2017)
- DP 24: Diagnostic protocol for *Tomato spotted wilt virus*, *Impatiens necrotic spot virus* and *Watermelon silver mottle virus* (2017)
- DP 25: Diagnostic protocol for *Xylella fastidiosa* (2018, revised in 2024)
- DP 26: Diagnostic protocol for *Austropuccinia psidii* (2018)
- DP 27: Diagnostic protocol for *Ips* spp. (2018, revised in 2024)
- DP 28: Diagnostic protocol for *Conotrachelus nenuphar* (2018)
- DP 29: Diagnostic protocol for *Bactrocera dorsalis* (2019)
- DP 30: Diagnostic protocol for *Striga* spp. (2021)
- DP 31: Diagnostic protocol for 'Candidatus Liberibacter' spp. on *Citrus* spp. (2022)
- DP 32: Diagnostic protocol for Genus *Ceratitis* (2023)
- DP 33: Diagnostic protocol for *Mononychellus tanajoa* (2023)
- DP 34: Diagnostic protocol for *Heterobasidion annosum sensu lato* (2025)
- DP 35: Diagnostic protocol for *Meloidogyne mali* (2025)
- DP 36: Diagnostic protocol for Genus *Pospiviroid* (2025)

ISPM 28

*Phytosanitary treatments for regulated pests* (adopted in 2007)

- PT 1: **Revoked.** Irradiation treatment for *Anastrepha ludens* (2009). Covered by PT 39)
- PT 2: **Revoked.** Irradiation treatment for *Anastrepha obliqua* (2009). Covered by PT 39)
- PT 3: **Revoked.** Irradiation treatment for *Anastrepha serpentina* (2009). Covered by PT 39)
- PT 4: Irradiation treatment for *Bactrocera jarvisi* (2009)
- PT 5: Irradiation treatment for *Bactrocera tryoni* (2009)
- PT 6: Irradiation treatment for *Cydia pomonella* (2009)
- PT 7: Irradiation treatment for fruit flies of the family Tephritidae (generic) (2009)
- PT 8: Irradiation treatment for *Rhagoletis pomonella* (2009)
- PT 9: Irradiation treatment for *Conotrachelus nenuphar* (2010)
- PT 10: Irradiation treatment for *Grapholita molesta* (2010)
- PT 11: Irradiation treatment for *Grapholita molesta* under hypoxia (2010)
- PT 12: Irradiation treatment for *Cylas formicarius elegantulus* (2011)
- PT 13: Irradiation treatment for *Euscepes postfasciatus* (2011)
- PT 14: Irradiation treatment for *Ceratitis capitata* (2011)
- PT 15: Vapour heat treatment for *Bactrocera cucurbitae* on *Cucumis melo* var. *reticulatus* (2014)
- PT 16: Cold treatment for *Bactrocera tryoni* on *Citrus sinensis* (2015)
- PT 17: Cold treatment for *Bactrocera tryoni* on *Citrus reticulata* x *C. sinensis* (2015)
- PT 18: Cold treatment for *Bactrocera tryoni* on *Citrus limon* (2015)
- PT 19: Irradiation treatment for *Dysmicoccus neobrevipes*, *Planococcus lilacinus* and *Planococcus minor* (2015)
- PT 20: Irradiation treatment for *Ostrinia nubilalis* (2016)
- PT 21: Vapour heat treatment for *Bactrocera melanotus* and *Bactrocera xanthodes* on *Carica papaya* (2016)
- PT 22: Sulphuryl fluoride fumigation treatment for insects in debarked wood (2017)
- PT 23: Sulphuryl fluoride fumigation treatment for nematodes and insects in debarked wood (2017)
- PT 24: Cold treatment for *Ceratitis capitata* on *Citrus sinensis* (2017)
- PT 25: Cold treatment for *Ceratitis capitata* on *Citrus reticulata* x *C. sinensis* (2017)
- PT 26: Cold treatment for *Ceratitis capitata* on *Citrus limon* (2017)
- PT 27: Cold treatment for *Ceratitis capitata* on *Citrus paradisi* (2017)

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|           | <ul style="list-style-type: none"> <li>- PT 28: Cold treatment for <i>Ceratitis capitata</i> on <i>Citrus reticulata</i> (2017)</li> <li>- PT 29: Cold treatment for <i>Ceratitis capitata</i> on <i>Citrus clementina</i> (2017)</li> <li>- PT 30: Vapour heat treatment for <i>Ceratitis capitata</i> on <i>Mangifera indica</i> (2017)</li> <li>- PT 31: Vapour heat treatment for <i>Bactrocera tryoni</i> on <i>Mangifera indica</i> (2017)</li> <li>- PT 32: Vapour heat treatment for <i>Bactrocera dorsalis</i> on <i>Carica papaya</i> (2018)</li> <li>- PT 33: Irradiation treatment for <i>Bactrocera dorsalis</i> (2021)</li> <li>- PT 34: Cold treatment for <i>Ceratitis capitata</i> on <i>Prunus avium</i>, <i>Prunus salicina</i> and <i>Prunus persica</i> (2021)</li> <li>- PT 35: Cold treatment for <i>Bactrocera tryoni</i> on <i>Prunus avium</i>, <i>Prunus salicina</i> and <i>Prunus persica</i> (2021)</li> <li>- PT 36: Cold treatment for <i>Ceratitis capitata</i> on <i>Vitis vinifera</i> (2021)</li> <li>- PT 37: Cold treatment for <i>Bactrocera tryoni</i> on <i>Vitis vinifera</i> (2021)</li> <li>- PT 38: Irradiation treatment for <i>Carposina sasakii</i> (2021)</li> <li>- PT 39: Irradiation treatment for the genus <i>Anastrepha</i> (2021)</li> <li>- PT 40: Irradiation treatment for Tortricidae on fruits (2022)</li> <li>- PT 41: Cold treatment for <i>Bactrocera zonata</i> on <i>Citrus sinensis</i> (2022)</li> <li>- PT 42: Irradiation treatment for <i>Zeugodacus tau</i> (2022)</li> <li>- PT 43: Irradiation treatment for <i>Sternochetus frigidus</i> (2022)</li> <li>- PT 44: Vapour heat-modified atmosphere treatment for <i>Cydia pomonella</i> and <i>Grapholita molesta</i> on <i>Malus pumila</i> and <i>Prunus persica</i> (2022)</li> <li>- PT 45: Irradiation treatment for <i>Pseudococcus jackbeardsleyi</i> (2023)</li> <li>- PT 46: Cold treatment for <i>Thaumatotibia leucotreta</i> on <i>Citrus sinensis</i> (2024)</li> </ul> |
| ISPM 29   | <i>Recognition of pest free areas and areas of low pest prevalence</i> (adopted in 2007)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| ISPM 30   | <b>Revoked.</b> <i>Establishment of areas of low pest prevalence for fruit flies (Tephritidae)</i> (adopted in 2008. Incorporated as an annex to ISPM 35 in 2018)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| ISPM 31   | <i>Methodologies for sampling of consignments</i> (adopted in 2008)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| ISPM 32   | <i>Categorization of commodities according to their pest risk</i> (adopted in 2009)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| ISPM 33   | <i>Pest free potato (Solanum spp.) micropropagative material and minitubers for international trade</i> (adopted in 2010)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| ISPM 34   | <i>Design and operation of post-entry quarantine stations for plants</i> (adopted in 2010)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| ISPM 35   | <i>Systems approach for pest risk management of fruit flies (Tephritidae)</i> (adopted in 2012)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| ISPM 36   | <i>Integrated measures for plants for planting</i> (adopted in 2012)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| ISPM 37   | <p><i>Determination of host status of fruit to fruit flies (Tephritidae)</i> (adopted in 2016, revised in 2024)</p> <ul style="list-style-type: none"> <li>- Annex 1: Criteria for evaluation of available information for determining host status of fruit to fruit flies (Tephritidae) (2024)</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| ISPM 38** | <i>International movement of seeds</i> (adopted in 2017)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| ISPM 39   | <p><i>International movement of wood</i> (adopted in 2017, revised in 2025)</p> <ul style="list-style-type: none"> <li>- Annex 1: Use of systems approaches in managing the pest risk associated with the movement of wood (2025)</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| ISPM 40   | <i>International movement of growing media in association with plants for planting</i> (adopted in 2017)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| ISPM 41   | <i>International movement of used vehicles, machinery and equipment</i> (adopted in 2017)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| ISPM 42   | <i>Requirements for the use of temperature treatments as phytosanitary measures</i> (adopted in 2018)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| ISPM 43   | <i>Requirements for the use of fumigation as a phytosanitary measure</i> (adopted in 2019)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |

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| ISPM 44   | <i>Requirements for the use of modified atmosphere treatments as phytosanitary measures</i> (adopted in 2021)                                                    |
| ISPM 45   | <i>Requirements for national plant protection organizations if authorizing entities to perform phytosanitary actions</i> (adopted in 2021)                       |
| ISPM 46   | <i>Commodity-specific standards for phytosanitary measures</i> (adopted in 2022)<br>- CS 1: International movement of fresh <i>Mangifera indica</i> fruit (2025) |
| ISPM 47** | <i>Audit in the phytosanitary context</i> (adopted in 2022)                                                                                                      |